

Table of Content

Introduction	
Overview.....	1
Features.....	2
Installations	
Console Connection.....	3
Computers Connection.....	5
Initial Power-up.....	7
Operations	
Front Panel operation.....	8
Hot-key commands.....	8
Appendices	
Specifications.....	11
Troubleshooting	12



Please read this manual thoroughly and follow the **Installation** procedures to prevent any damage to the KVM Switch SW0206C, SW0207A, SW0407C, SW0408A or any connecting device.

This device is tested and complies with Part 15 of FCC/class B, CE and VCCI rules.



----- Introduction

Overview

The KVM Switch SW0206C, SW0207A, SW0407C and SW0408A are computer switches that allow access to two or four IBM compatible computers from one PS/2 keyboard, mouse and monitor. Switching between computers is as easy as pressing the push button or entering hot-key commands from your keyboard. There is no interface card and software to install and the switch is independent of the computer operating system.

Ready to run right out of the box, this kit comes with everything you need - a switch and complete cable sets, just hook them up and go. By allowing one console to manage all your computers, the SW0206C, SW0207A, SW0407C and SW0408A eliminate the expense for extra consoles, the spaces for extra peripherals and the time hopping around for accessing different computers.

SW0207A allows one microphone and speaker to be shared by two computers and SW0408A allows four.

Features

- Unique loose-free cables included preventing keyboard or mouse connector from getting loose.
- Supports PS/2 keyboard and mouse.
- Keyboard and mouse emulation for error-free PC boot up.
- Keyboard and mouse are hot pluggable at any time without turning either the switch or PCs off.
- Space-saving design - all cables are connected to the rear.
- Auto scan automatically selects computers sequentially.
- Supports M/S IntelliMouse (Pro), Explorer, Optical.
- Hot-key and push button allow easy computer access.
- Keyboard states automatically saved and restored when switching computers.
- Operating system and software independent, transparent to all applications.
- High VGA resolution 1920x1440.
- DDC2B compatible.
- Power-free operation - the switch draws power from the attached PCs.
- SW0207A and SW0408A support microphone and speaker switching.

-----Installation

Console Connection

Turn your computers off. Connect a PS/2 keyboard to the mini-DIN-6 port marked with a keyboard and a PS/2 mouse to the mini-DIN-6 port marked with a mouse. Then connect your VGA monitor cable directly to the HD-DB-15 port as shown in figure 1 for 2-port KVM Switch SW0206C.

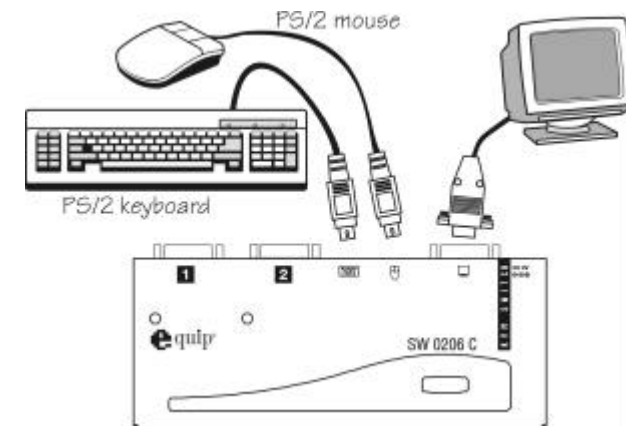


Figure 1:KVM Switch SW0206C Console Connection

The figure 2 shows 4-port KVM Switch SW0407C console connection ; SW0207A has similar connection.

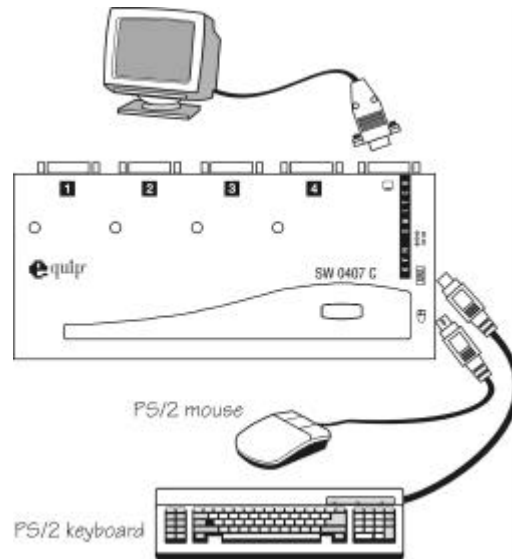


Figure 2: KVM Switch SW0407C Console Connection

The multi-sync monitor must be capable of synchronizing with the computer's video signal. If you are uncertain about the monitor type, please consult the monitor user's manual.

The KVM Switch SW0206C, SW0207A, SW0407C or SW0408A consumes negligible power and is designed to run reliably without an external power adapter.

Computers Connection

KVM Switch comes with complete cable sets facilitating computer connection. One side of the cable has an HDB-15 connector and the other side has three connectors (one HDB-15 and two mini-DIN6s). The **PC 1 ~ PC 4** marks on the KVM Switch are for computer connection as shown in figure 3, 4 and 5.

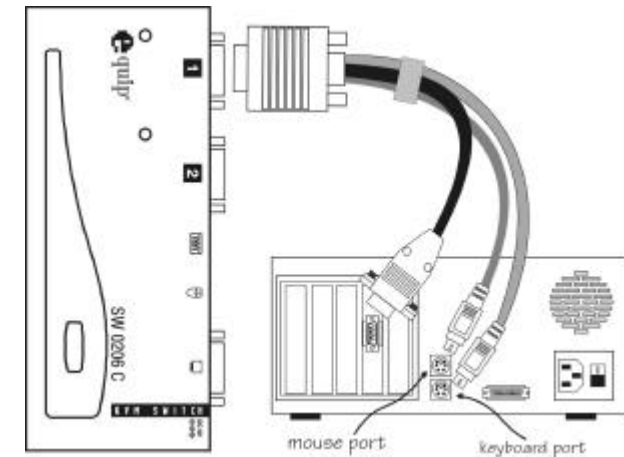


Figure 3: COMPUTER Connection

NOTE: If your computer uses an AT style keyboard, you will need an "AT-to-PS/2 keyboard adapter" at the computer keyboard port.

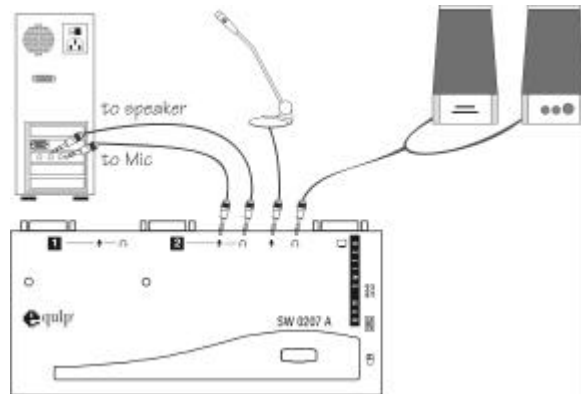


Figure 4: SW0207A PC side Connection

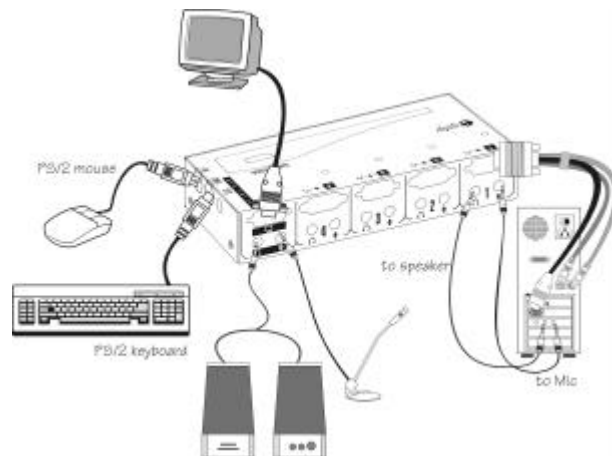


Figure 5: SW0408A PC side Connection

Initial Power-up

Make sure all computers and the KVM Switch are powered down during installation. You may power up the computers after installation,. The KVM Switch can be powered from the computers. This procedure ensures the KVM Switch receive computer settings correctly when computer boots.

NOTE: You may hot plug any additional powered-down computer to the KVM Switch at any time after the initial power up.

----- Operations

Front Panel operation

You may switch to a different computer by pressing the front panel push-button directly or by issuing hot-key commands. The front-panel LED illuminates indicating the active port. The LED flashes while in either Auto Scan or Manual Scan mode.

Should you encounter any keyboard or mouse problem, press and hold down the push-button for 3 seconds to initialize the keyboard and mouse.

Hot-key commands

Hot-key command is a short keyboard sequence to select a computer or to activate computer scanning. The switch interprets keystrokes for hot-keys all the time. A hot-key sequence starts with two left **Ctrl** keystrokes followed by one or two more keystrokes.

- To select a computer:
 - left **Ctrl** + left **Ctrl** + **1**
Selects the computer at **PC 1**.
 - left **Ctrl** + left **Ctrl** + **2**
Selects the computer at **PC 2**.
 - left **Ctrl** + left **Ctrl** + **3**
Selects the computer at **PC 3** (for SW0407C only).
 - left **Ctrl** + left **Ctrl** + **4**

Selects the computer at **PC 4** (for SW0407C only).

NOTE: Do not use the keypad at the right side of the keyboard for hot key commands.

- To start *Auto Scan*, automatically scans all ports one by one at a fixed interval:

left **Ctrl** + left **Ctrl** + **F 1**

To abort the *Auto Scan* mode, press the left **Ctrl** key twice. Keyboard and mouse are both operational during *Auto Scan*. When it detects any keyboard or mouse activity, it suspends *Auto Scan* until the activity stops; it then resumes with the next computer in sequence. The length of the *Auto Scan* interval (*Scan Rate*) is adjustable, see below. LED flashes during *Auto Scan* for SW0407C only.

- *Manual Scan* enables you to manually switch back and forth between computers.

left **Ctrl** + left **Ctrl** + **F2**

Press or to select the previous or the next computer in sequence. And, press any other key to abort the *Manual Scan*. LED flashes during *Manual Scan* for SW0407C only.

- To adjust *Scan Rate* which sets the duration before switching to the next computer in *Auto Scan*:

left **Ctrl** + left **Ctrl** + **F3**

There are four options: **3, 8, 15** and **30** seconds.

NOTE: Scan Rate is set to default of 3 seconds after the switch loses power, i.e., all connected computers are turned off.

- To adjust keyboard typematic rate (characters/sec), this setting over-rides that of BIOS and any operating system:
left **Ctrl**+ left **Ctrl**+ **F4**
There are four options: **10, 15, 20** and **30** characters/sec.

NOTE: Scan Rate is set to default of 10 characters/sec when the switch loses all power sources, i.e., all connected computers are turned off.

----- Appendices

Specifications

Specification	SW0206C	SW0207A	SW0407C	SW0408A
Console port number	1	1	1	1
Computer port number	2	2	4	4
Port selection push button	1			
Hot plug-and-play	Yes			
Hot-key control	Yes			
VGA	1920 x 1440, DDC2B			
Y2K compliance	Yes			
Computer connector	HDB15 x 2	HDB15 x 2 Stereo jack x 4	HDB15 x 4	HDB15 x 4 Stereo jack x 8
Console connector	PS/2 PS/2 HDB15			
Keyboard				
Mouse				
Monitor				
Speaker/Mic	No	Stereo jack x 2	No	Stereo jack x 2
Audio support	No	Yes	No	Yes
Automatic scan interval	3, 8, 15, 30 seconds			
Cable length	1.8m x 2		1.8m x 4	
H x W x D (mm)	20 x 70 x 155		20 x 85 x 180	35 x 85 x 180
Power-free operation	Yes			

Troubleshooting

Ensure that all cables are well seated. Check that keyboard/mouse cables are not swapped. Label the cables for each computer to avoid confusion when connected to the SW0206C, SW0207A or SW0407C.

Symptom	Causes	Solutions
Keyboard or mouse does not work	Improper power-up sequence. Keyboard or mouse not properly initialized.	Press and hold down the push button for 3 seconds, the switch will re-initialize the keyboard and mouse. If problem persists, unplug the keyboard or mouse, wait for few seconds then plug it back.
Keyboard error on boot	Loose keyboard connection.	Make sure all cables are well seated and secured.
Keyboard strokes shifted	The computer was in shifted state when last switched	Press down both SHIFT keys.
If the switch fails to function occasionally.	Computers do not supply enough power.	Add a power adapter with minimum of DC 9V 500mA output rating to the SPARE power jack.
Computer can not use serial mouse.		The switch does not support serial mouse.
Scan Rate was set to 30 sec and becomes 3 sec.	All connecting computers are powered off; The switch resets.	Set the Scan Time again and keep at least one computer on all the time.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio technician for help.

Limited Warranty

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PP5-N7200-207
Printed in Taiwan